CIVIL QUALITY
CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited
Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/KC/16/2020-2021

Date:09.01.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. Kumara.C(Sri Lakshmi Enterprises),** Contractor, Bangalore.

Name of Work : Emergency works in Jalahalli surroundings area in ward no 16 jalahalli, BBMP, Bangalore

Sample : : Cement (Ultratech 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: :December-2020

Date of Testing 07.01.2021 to 09.01.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	365 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50%	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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Job No.: CQCE/BBMP/KC/16/2020-2021

Date 09.01.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. Kumara.C(Sri Lakshmi Enterprises),** Contractor, Bangalore.

Name of Work : Emergency works in Jalahalli surroundings area in ward no 16 jalahalli, BBMP, Bangalore

Date of Testing 09.01.2021

IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	50	5.00	5.00	95.0	90-100
2.36	112	11.20	16.20	83.8	75-100
1.18	150	15.00	31.20	68.8	55-90
600 Micron	254	25.40	56.60	43.4	35-59
300 Micron	160	16.00	72.60	27.4	8-30
150 Micron	250	25.00	97.60	2.4	0-10

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Job No.: CQCE/BBMP/KC/16/2020-2021

Date 09.01.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. Kumara.C(Sri Lakshmi Enterprises),** Contractor, Bangalore.

Name of Work : Emergency works in Jalahalli surroundings area in ward no 16 jalahalli, BBMP, Bangalore

Date of Testing 09.01.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	232	1.55	1.55	98.45	95-100
20	8451	56.34	57.89	42.11	30-70
10	3326	22.17	80.06	19.94	10-35
4.75	2748	18.32	98.38	1.62	0-5

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Job No.: CQCE/BBMP/KC/16/2020-2021

Date 09.01.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. Kumara.C(Sri Lakshmi Enterprises),** Contractor, Bangalore.

Name of Work : Emergency works in Jalahalli surroundings area in ward no 16 jalahalli, BBMP, Bangalore

Date of Testing 09.01.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	235	4.7	4.7	95.3	95-100
10	2514	50.3	55.0	45.0	25-55
4.75	1985	39.7	94.7	5.3	0-10

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Job No.: CQCE/BBMP/KC/16/2020-2021

Date 09.01.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. Kumara.C(Sri Lakshmi Enterprises),** Contractor, Bangalore.

Name of Work : Emergency works in Jalahalli surroundings area in ward no 16 jalahalli, BBMP, Bangalore

Date of Testing 09.01.2021

Material : Plastering Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	15	1.50	1.50	98.5	95-100
2.36	16	1.60	3.10	96.9	95-100
1.18	36	3.60	6.70	93.3	90-100
600 Micron	78	7.80	14.50	85.5	80-100
300 Micron	241	24.10	38.60	61.4	20-65
150 Micron	536	53.60	92.20	7.8	0-15

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Job No.: CQCE/BBMP/KC/16/2020-2021

Date 09.01.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.

Agency : **Sri. Kumara.C(Sri Lakshmi Enterprises),** Contractor, Bangalore.

Name of Work : Emergency works in Jalahalli surroundings area in ward no 16 jalahalli, BBMP, Bangalore

Date of Testing 09.01.2021

Material : Masonry Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	18	1.80	1.80	98.2	90-100
1.18	32	3.20	5.00	95.0	70-100
600 Micron	87	8.70	13.70	86.3	40-100
300 Micron	250	25.00	38.70	61.3	5-70
150 Micron	486	48.60	87.30	12.7	0-15

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Job No: CQCE/BBMP/KC/16/2020-2021 Date 09.01.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Executive Engineer,** R R Nagar Division,BBMP, Bangalore.
Agency : **Sri. Kumara.C(Sri Lakshmi Enterprises),** Contractor, Bangalore.
Name of the Work : Emergency works in Jalahalli surroundings area in ward no 16 jalahalli, BBMP, Bangalore
Date of Testing 09.01.2021
Size of Blocks : 400mm x 200mm x 200mm
Cross Sectional Area : 80000 mm^2
Technical Reference : IS: 2185 (Part 1) - 2005
No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	33.9	348.9	4.36	2118.75	Minimum required Compressive Strength of Individual Units 4.00N/mm^2
2	Block 2	34.7	352.1	4.40	2168.75	
3	Block 3	35.5	369.2	4.62	2218.75	
4	Block 4	36.3	373.5	4.67	2268.75	

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